



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1238192
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1238192

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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DRILL STEM TEST REPORT

Prepared For: **Hamby Oil LLC**

PO Box 205
Ellinwood, KS 67526

ATTN: Kurt Talbott

Miller #3

16-20s-11w Barton,KS

Start Date: 2014.09.07 @ 16:44:00

End Date: 2014.09.08 @ 00:32:00

Job Ticket #: 60265 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.10 @ 15:09:58

Hamby Oil LLC
16-20s-11w Barton,KS
Miller #3
DST # 1
Arbuckle
2014.09.07



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Hamby Oil LLC
 PO Box 205
 Ellinwood, KS 67526
 ATTN: Kurt Talbott

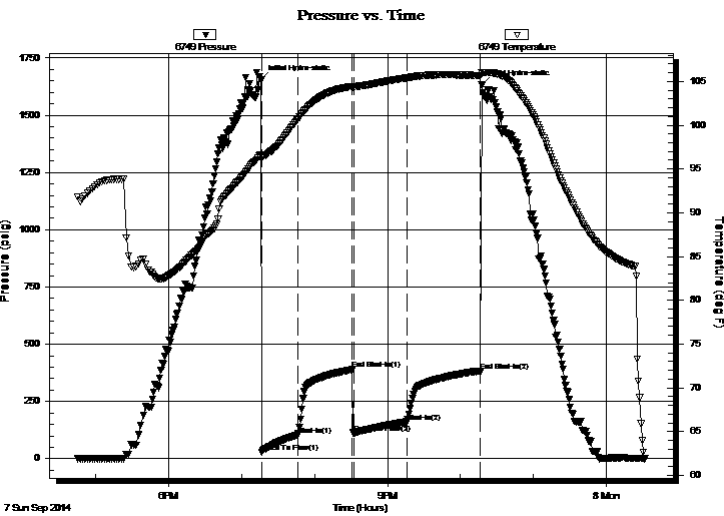
16-20s-11w Barton, KS
Miller #3
 Job Ticket: 60265 **DST#: 1**
 Test Start: 2014.09.07 @ 16:44:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:16:30
 Time Test Ended: 00:32:00
 Interval: **3268.00 ft (KB) To 3291.00 ft (KB) (TVD)**
 Total Depth: 3291.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: S1 Great Bend/26
 Reference Elevations: 1775.00 ft (KB)
 1767.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6749 Inside
 Press@RunDepth: 161.57 psig @ 3287.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.07 End Date: 2014.09.08 Last Calib.: 2014.09.08
 Start Time: 16:45:00 End Time: 00:32:00 Time On Btm: 2014.09.07 @ 19:16:00
 Time Off Btm: 2014.09.07 @ 22:17:30

TEST COMMENT: IFP 30 BOB in 6 min 30 sec
 ISI 45 BOB in 38 min
 FFP 45 BOB in 8 min
 FSI 60 BOB in 12 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1654.15	96.66	Initial Hydro-static
1	29.48	96.39	Open To Flow (1)
30	103.76	100.66	Shut-In(1)
75	389.57	104.43	End Shut-In(1)
76	111.20	104.39	Open To Flow (2)
120	161.57	105.40	Shut-In(2)
180	384.10	105.67	End Shut-In(2)
182	1632.55	105.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1147' GIP	0.00
93.00	MWCGO Mud 5% Water 5% Gas 15% Oil	1.30
62.00	WCGEO W 15% G 30% Emuls Oil 55%	0.87
186.00	OGCMW Oil 5% Gas 10% Mud 30% Water	2.61

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hamby Oil LLC
PO Box 205
Ellinwood, KS 67526
ATTN: Kurt Talbott

16-20s-11w Barton, KS
Miller #3
Job Ticket: 60265 **DST#: 1**
Test Start: 2014.09.07 @ 16:44:00

GENERAL INFORMATION:

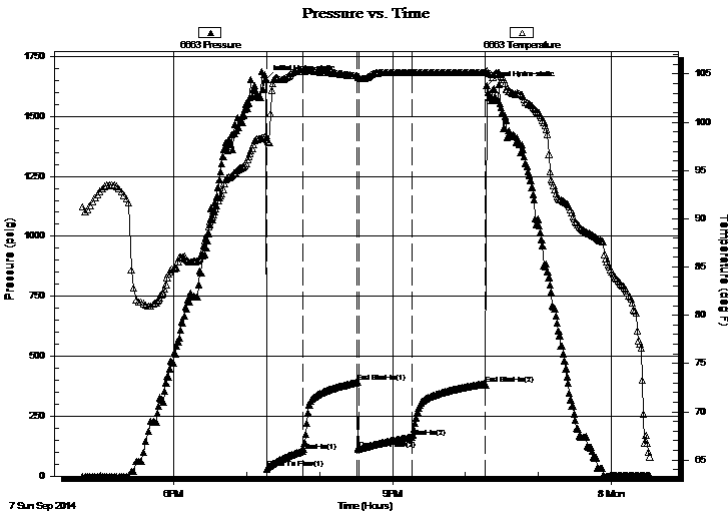
Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:16:30
Time Test Ended: 00:32:00
Interval: **3268.00 ft (KB) To 3291.00 ft (KB) (TVD)**
Total Depth: 3291.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: S1 Great Bend/26
Reference Elevations: 1775.00 ft (KB)
1767.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6663 Outside

Press@RunDepth: 385.25 psig @ 3288.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.07 End Date: 2014.09.08 Last Calib.: 2014.09.08
Start Time: 16:45:00 End Time: 00:32:00 Time On Btm: 2014.09.07 @ 19:16:00
Time Off Btm: 2014.09.07 @ 22:17:30

TEST COMMENT: IFP 30 BOB in 6 min 30 sec
ISI 45 BOB in 38 min
FFP 45 BOB in 8 min
FSI 60 BOB in 12 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1655.05	98.59	Initial Hydro-static
1	30.83	98.21	Open To Flow (1)
30	104.73	105.29	Shut-In(1)
75	390.64	104.82	End Shut-In(1)
76	112.09	104.69	Open To Flow (2)
120	162.71	105.12	Shut-In(2)
180	385.25	105.12	End Shut-In(2)
182	1629.98	105.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1147' GIP	0.00
93.00	MWCGO Mud 5% Water 5% Gas 15% Oil	1.30
62.00	WCGEO W 15% G 30% Emuls Oil 55%	0.87
186.00	OGCMV Oil 5% Gas 10% Mud 30% Water	2.61

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hamby Oil LLC
PO Box 205
Ellinwood, KS 67526
ATTN: Kurt Talbott

16-20s-11w Barton,KS
Miller #3
Job Ticket: 60265 **DST#: 1**
Test Start: 2014.09.07 @ 16:44:00

Tool Information

Drill Pipe:	Length: 3260.00 ft	Diameter: 3.80 inches	Volume: 45.73 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 32000.00 lb
			<u>Total Volume: 45.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 29000.00 lb
Depth to Top Packer:	3268.00 ft			Final 29000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3253.00	
Hydraulic tool	5.00			3258.00	
Top Packer	5.00			3263.00	
Packer	5.00			3268.00	20.00 Bottom Of Top Packer
Anchor	18.00			3286.00	
Recorder	1.00	6749	Inside	3287.00	
Recorder	1.00	6663	Outside	3288.00	
Bullnose	3.00			3291.00	23.00 Anchor Tool

Total Tool Length: 43.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hamby Oil LLC
PO Box 205
Ellinwood, KS 67526
ATTN: Kurt Talbott

16-20s-11w Barton,KS
Miller #3
Job Ticket: 60265 **DST#: 1**
Test Start: 2014.09.07 @ 16:44:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 41 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 38000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl	
Water Loss: 11.97 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 9500.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1147' GIP	0.000
93.00	MWCGO Mud 5% Water 5% Gas 15% Oil 75%	1.305
62.00	WCGeo W 15% G 30% Emuls Oil 55%	0.870
186.00	OGCMW Oil 5% Gas 10% Mud 30% Water 55%	2.609

Total Length: 341.00 ft Total Volume: 4.784 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6749

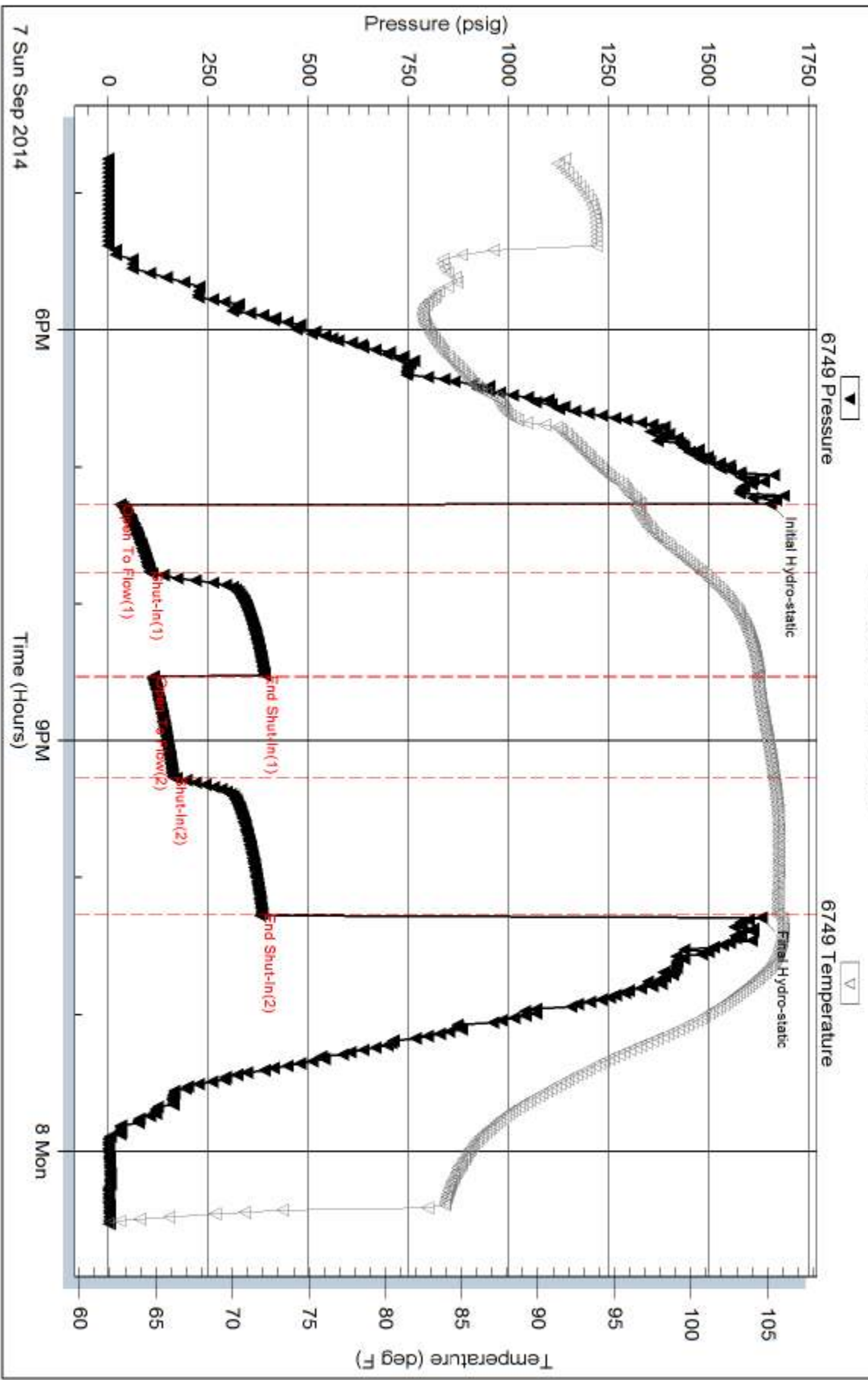
Inside

Hanby Oil LLC

Miller #3

DST Test Number: 1

Pressure vs. Time

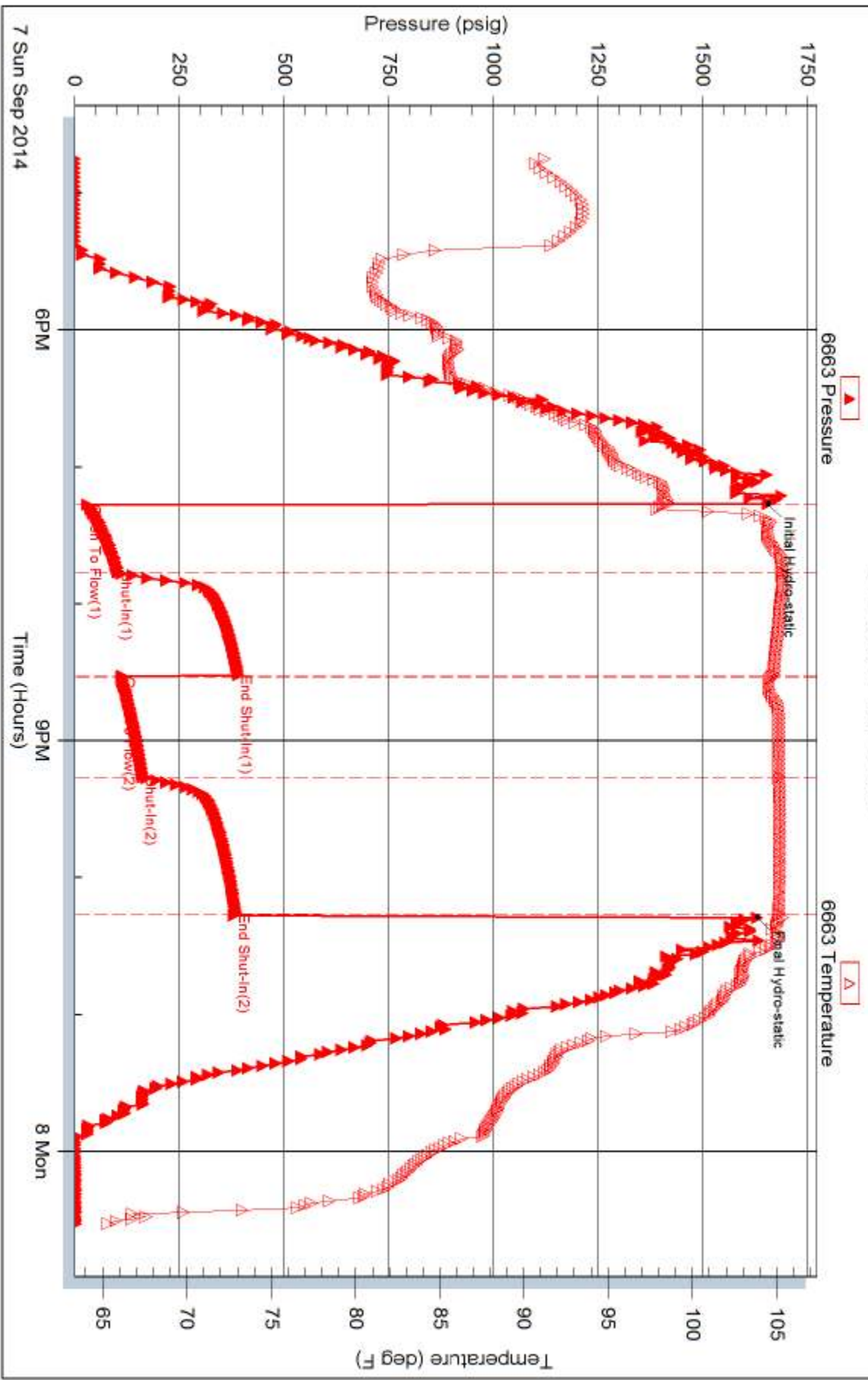


Trilobite Testing, Inc

Ref. No: 60265

Printed: 2014.09.10 @ 15:09:59

Pressure vs. Time





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60265

Well Name & No. Miller #3 Test No. 1 Date 7 Sept 14
 Company Hamby Oil LLC Elevation 1775 KB 1767 GL
 Address PO Box 205 Ellinwood Kansas 67526
 Co. Rep / Geo. Kurt Talbott Rig Southwind Rig #9
 Location: Sec. 16 Twp. 20 S Rge. 11 W Co. Barton State KS

Interval Tested 3268-3291 Zone Tested Arbuckle
 Anchor Length 23 Drill Pipe Run 3260 Mud Wt. 9.2
 Top Packer Depth 3263 Drill Collars Run — Vis 48
 Bottom Packer Depth 3268 Wt. Pipe Run — WL 12.0
 Total Depth 3291 Chlorides 9500 ppm System LCM 0

Blow Description Good blow/Blow built to bottom of bucket in 6 minutes 30 seconds
Blow back built to bottom of bucket in 38 minutes
Good blow/Blow built to bottom of bucket in 8 minutes
Blow back built to bottom of bucket in 12 minutes

Rec	Feet of	%gas	%oil	%water	%mud
1147	Gas in Pipe	100			
93	Mud & Water cut Gassy Oil	15%	75%	5%	5%
62	Water cut gassy Emulsified Oil	30%	55%	15%	
186	Oil + Gas cut muddy water	10%	5%	55%	30%
		%gas	%oil	%water	%mud

Rec Total _____ BHT 106 Gravity 41 API RW _____ @ _____ °F Chlorides 38,000 ppm

(A) Initial Hydrostatic 1654 Test 1150 T-On Location 3:10 pm
 (B) First Initial Flow ~~103~~ 29 Jars _____ T-Started 4:44 pm
 (C) First Final Flow ~~384~~ 103 Safety Joint _____ T-Open 7:16 pm
 (D) Initial Shut-In ~~##~~ 389 Circ Sub _____ T-Pulled 10:16 pm
 (E) Second Initial Flow ~~##~~ 111 Hourly Standby _____ T-Out 12:10 am
 (F) Second Final Flow 161 Mileage 26 40.30 Comments _____
 (G) Final Shut-In 384 ~~1632~~ Sampler _____
 (H) Final Hydrostatic 1632 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total 0
 Final Flow 45 Day Standby _____ Total 1190.30
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1190.30

Approved By Kurt Talbott Our Representative Paul J. King

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

QUALITY WELL SERVICE, INC.

6207

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	09-09-14	Sec.	16	Twp.	20s	Range	11w	County	Barton	State	KS	On Location	3 30AM	Finish	5 45 AM				
Lease	Miller	Well No.	3			Location Great Bend, 53, East to Ellinwood Rd, 2N, 2E 1/4, East 1/2													
Contractor	Southwind #9							Owner Hamby oil LLC											
Type Job	Production							To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.											
Hole Size	7 7/8		T.D. 3365																
Csg	5 1/2		15.5 #		Depth 3368.59								Charge To Hamby Oil						
Tbg. Size								Depth								Street			
Tool								Depth								City	State		
Cement Left in Csg.	21'		Shoe Joint 21.4																
Meas Line								Displace 7 1/2 Bbls Fresh								Cement Amount Ordered 130s x Pro C Bland + 5 # Kase			
EQUIPMENT											4 500gal mud Clean 10 % Salt								
Pumptrk	8	No.	David B																
Bulktrk	10	No.	David B																
Bulktrk		No.																	
Pickup		No.	David F																
JOB SERVICES & REMARKS											Hulls								
Rat Hole	30		Salt 11																
Mouse Hole	Flowseal																		
Centralizers	6 turbo. 1-3-5-7-9-11														Kol-Seal 650 # 13sx.				
Baskets	1-2		Mud CLR 48 500 Gal Mud Flush																
D/V or Port Collar	CFL-117 or CD110 CAF 38																		
Pipe on Bttm, Break Circ., Pump Preflux mix 100s x Pro C Bland, Stop, Wash Pump Release Plug, Start Disp. w/ Fresh H ₂ O See Steady increase in PSI @ 51 Bbls Slow Rate, Bump Plug from 500 PSI to 1200 PSI, at 7 1/2 Bbls total Disp. Release PSI, Floats Did Hold											Sand								
											Handling 154								
											Mileage 10								
FLOAT EQUIPMENT																			
											Guide Shoe								
											Centralizer 6-turbo- 5 1/2								
											Baskets 1-5 1/2								
											AFU Inserts								
											Float Shoe 1-5 1/2								
											Latch Down 5 1/2-1								
											LMV 10								
											Service supervisor								
											Pumptrk Charge Long string.								
											Mileage 10 X 2								
											Tax								
											Discount								
											Total Charge								
Signature											X <i>Chuck Hamby</i>								

QUALITY WELL SERVICE, INC.

6006

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

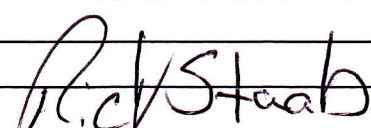
Office 620-727-3410

Fax 620-672-3663

Rich's Cell 620-727-3409

Brady's Cell 620-727-6964

Handwritten notes:
 2000
 4600

Date	8-31-14	Sec.	16	Twp.	20	Range	11 W	County	Barton	State	K-S.	On Location	2:30 AM	Finish	6:30 AM
Lease	Miller		Well No.	H3		Location Ellinwood 1 S 2E 1/4 South East into									
Contractor	Southwestern					Owner Hamby oil									
Type Job	Surface					To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Hole Size	12 1/4		T.D.	267'											
Csg.	8 5/8		Depth	265'											
Tbg. Size			Depth												
Tool			Depth												
Cement Left in Csg.	20'		Shoe Joint	N/A											
Meas Line			Displace	15 1/2 BBLs Fresh		Cement Amount Ordered 275sx60:40:24 cement + 3%									
EQUIPMENT										cc + 1/4" Flo Seal					
Pumptrk	8	No.	Rich		Common 165										
Bulktrk	9	No.	Pete		Poz. Mix 110										
Bulktrk		No.			Gel. 5										
Pickup	2	No.	David F.		Calcium 10										
JOB SERVICES & REMARKS										Hulls					
Rat Hole						Salt									
Mouse Hole						Flowseal 68.75									
Centralizers						Kol-Seal									
Baskets						Mud CLR 48									
D/V or Port Collar						CFL-117 or CD110 CAF 38									
Pipe on Btm, Break Circ, Pump Spacer										Sand					
Mix 275sx60:40:24 cement Blend										Handling 290					
Stop - Release Plug, Start Disp. w/ Fresh H ₂ O, Wash up on Plug, See increase in PST, Slow Rate, Stop Pump at 15 1/2 BBLs total Disp										Mileage 5					
Shut in - Cement Did Circ.										FLOAT EQUIPMENT					
										Guide Shoe					
										Centralizer					
										Baskets					
										AFU Inserts					
										Float Shoe					
										Latch Down LMV 5					
										Wooden Cup Plug 8 5/8					
										Service Supervisor					
										Pumptrk Charge Surface					
										Mileage 5					
Signature										Tax					
										Discount					
										Total Charge					